



October 12, 2004

DESIGN MEMORANDUM No. 04-09
TECHNICAL ADVISORY

TO: All Design, Operations, District Personnel, and Consultants

FROM: /s/ Anthony L. Uremovich
Anthony L. Uremovich
Design Policy Engineer
Contracts and Construction Division

SUBJECT: Bridge Load Rating Policy

COMPLEMENTS: *Indiana Design Manual* Section 14-2.03(07)

EFFECTIVE: Final Check Prints Submission After January 1, 2005

The following policy applies to bridge replacement and new bridge construction projects on or over INDOT routes.

The Design Division's project coordinator will submit a copy of the bridge plans, excluding cross sections, at the final check print stage with a cover letter indicating the bridge designer's name, design firm (if applicable), telephone number and/or e-mail address, and any other necessary information to the Program Development Division's bridge inspection engineer. The bridge inspection engineer will run the available bridge load rating program and provide the project coordinator with the bridge load rating analysis and output results, not later than four weeks from the date of plans submittal.

If the analysis shows an inventory rating less than 36 tons for an HS20 loading or 45 tons for an HS25 loading, the project coordinator will send the information to the designer to revise the design and plans or resolve any input errors.

The Design Division should submit to the bridge inspection engineer a copy of any changes or revisions to the bridge plans, including those due to a cost reduction proposal, that may affect the load capacity rating after the load rating is completed.

The Design Division will provide the bridge inspection engineer with the structural calculations including computer output for the bridge types as follows:

1. post-tensioned concrete beams; *
2. segmental concrete; *
3. three-sided structures; **
4. oversize box culverts; ** and
5. others as requested by the bridge inspection engineer.

* The designer will notify the bridge inspection engineer of these structure types as soon as practical after receipt of design approval.

** No submission of final check prints will be made for these structures. Calculations for these structures will be furnished after shop plans are approved.

This policy applies to final check prints submitted after July 1, 2004.